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09/960,118	09/21/2001	Steven R. Pearson	BEA920010027US1	5751
49056 7590 03/19/2008 LIEBERMAN & BRANDSDORFER, LLC 802 STILL CREEK LANE GAITHERSBURG, MD 20878				
EXAMINER				
FILIPCZYK, MARCIN R				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/960,118

Applicant(s)

PEARSON, STEVEN R.

Examiner

Marc R. Filipczyk

Art Unit

2163

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 December 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 15-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 15-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/C)
- Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

Response to Amendment

This Action is responsive to Applicant's amendment filed on December 17, 2007.

Claim 15-32 are pending.

To expedite the process of examination Examiner requests that all future correspondences in regard to overcoming prior art rejections or other issues (e.g. amendments, 35 U.S.C. 112, objections and the like) set forth by the Examiner that Applicants provide and link to the most specific page and line numbers of the disclosure where the best support is found (see 35 U.S.C. 132).

Claim Objections

Claims 15-32 are objected to because of the following informalities:

The phrase "hierarchical node" is objected to and should be replaced with a node pertaining to a particular level to reflect similar terminology used throughout the claims.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 15-32 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The basis of this rejection is set forth whether the invention accomplishes a practical application and whether it generates a useful, concrete and tangible result.

The guidelines explain that a practical application of a 35 U.S.C. 101 judicial exception is claimed if the claimed invention physically transforms an article or physical object to a different

state or thing, or if the claimed invention otherwise produces a useful, concrete, and tangible result.

In the present case, independent claims 15, 21 and 27 do not involve transformation of article or physical object to a different state or thing, they merely recite processing data items. Further, independent claims 15, 21 and 27 do not produce a useful, concrete, and tangible result, but merely merge data to a single output, however this feature is not stored or reused. State Street, 149 F.3d at 1373-74, 47 USPQ2d at 1601-02.

Claims 15, 21 and 27 taken as a whole are directed to a mere method and program listing, i.e., to only its description or expression, is descriptive material per se, do not comprise a practical application as explained above hence are nonstatutory.

Since the claimed invention, as a whole, does not comprise a practical application as explained above, claims 16-20, 22-26 and 28-32 which depend from claims 15, 21 and 27 respectively, are deemed to be directed to non-statutory subject matter.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 15, 21 and 27, claim 15 being exemplary, are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 15 being exemplary, the subject matter of 1)

“promoting said data items of said leaf nodes through said tree from a leaf node to said root node”, 2) “hierarchical node”, and 3) “promoting one of said data items of one said nodes to a node in a next level”, were not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention.

Claims 16-20, 22-26, 28-32 depend from claims 15, 21 and 27, respectively and are therefore rejected on the same basis.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 15-32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 15, 21 and 27, claim 15 being exemplary, the segment “promoting one of said data items of one said nodes to a node in a next level... status identifier” is indefinite. It is not clear how a status identifier is used to promote nodes from one level to another level. Second, the segment “comparing said status identifier of two of said nodes” is indefinite. It is not clear what status and which two nodes are compared. Last, the phrase, “a said first node” is indefinite. It is not clear what node is being referred to.

Claims 16-20, 22-26, 28-32 depend from claims 15, 21 and 27, respectively and are therefore rejected on the same basis.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 15-32 are rejected under 35 U.S.C. 102(a) as best as Examiner is able to ascertain as being anticipated by Applicant's Admitted Prior Art (AAPA), Applicant's Disclosure.

Regarding claims 15, 21 and 27, AAPA discloses a method, program and system for implementing replacement selection method: (page 1, lines 5-8 and page2, lines 11-15, AAPA) creating a tree with a root node and leaf nodes; (fig. 5A, items 520-525 and see nodes) processing data items; (fig. 5A) promoting data items responsive to a data identifier value; (fig. 5A, items 520-525 and 510-515)

merging data items from input streams to a single output stream; (fig. 5A and page 1, par. 5, lines 1-11)

resolving a data item being processed from a second input stream as being a duplicate of a previously processed data item from a first input stream based on said assigned duplicate data item comparison and omitting a node identifier comparison; (fig. 5A, nodes and page 1, par. 6, lines 1-7, *duplicate and swap can be omitted*)

processing and promoting data items from said second input stream responsive to said assigned duplicate status identifier (page 1, par. 5, lines 8-11 and par 6, line 4); and

said single output stream comprised of said merged data items (fig. 5A and page 1, par. 5, lines 1-11, *merging*).

(Note: AAPA teaches any number of input streams represented by the letter N)

Regarding claims 16-20, 22-26 and 28-32 AAPA discloses all the subject matter claimed in the rejection above, in addition AAPA teaches each node of the selection tree comprises an identifier of one of the input streams, and a reference to a data item being processed from that one of the input streams (fig. 5A, item 500 and nodes), value numbers to signify relationships between the keys (identifiers), see (page 1, par. 6, lines 5-8) and that the method is a replacement selection method using a loser oriented selection tree (fig. 5 and page 1, paragraphs 5 and 6).

Response to Arguments

Applicant's arguments filed December 17, 2007 have been fully considered but they are not persuasive. The arguments and responses are listed below.

On page 9, Applicant argues that the feature of "single output stream formed by the merge" overcomes non-statutory rejection.

Examiner disagrees. Applicants do not claim storing or reusing any generated result. The rejection is therefore maintained.

On page 10-11, Applicant argues that "hierarchical manner" and similar language has been removed from the claims.

Examiner disagrees. Hierarchical nodes are present in the pending claims and are rejected/objected accordingly.

On page 12, Applicant notes that the Examiner mentioned that the prior art does not teach the omission of a second node identifier comparison.

Examiner disagrees. For an accurate summary of the interview between the Applicant and Examiner please refer to the Examiner's Interview Summary mailed out on 11/08/07 signed by both parties. The argued limitation is rejected above with prior art description submitted by the Applicants.

Examiner notes that the present claims are rejected as best understood by the Examiner. The pending claims attempt to claim a computer replacement selection method for 3 or more input data streams, or a plurality of streams. The AAPA submitted by the Applicants also teaches a computer replacement selection method by building a binary selection tree over a plurality of input streams, as seen in fig. 5 (page 1, lines 5-8 and 9-11, Instant Application).

With respect to all the pending claims 15-32, Examiner respectfully traverses Applicants assertion based on the discussion and rejection above.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc R. Filipczyk whose telephone number is (571) 272-4019. The examiner can normally be reached on Mon-Fri, 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MF
March 10, 2008
/Marc R Filipczyk/
Examiner, Art Unit 2163

/don wong/
Supervisory Patent Examiner, Art Unit 2163